

Title (en)

Polyether polyol for preparing rigid polyurethane foams

Title (de)

Polyetherpolyd zur Herstellung von starren Polyurethanschäumen

Title (fr)

Polyether polyol pour la préparation de mousses de polyuréthane rigide

Publication

EP 0778302 A1 19970611 (EN)

Application

EP 96203440 A 19961205

Priority

- EP 96203440 A 19961205
- EP 95203399 A 19951207

Abstract (en)

Polyether polyol having an aromaticity in the range of from 2% to 35%, an average nominal functionality (Fn) in the range of from 2.0 to 4.5 and a hydroxyl value in the range of from 390 to 650 mg KOH/g, whereby the aromatic carbon atoms are contained in structural moieties of the general formula <CHEM> wherein both R1 groups independently represent hydrogen or a C1-C3 alkyl group; both R2 groups independently represent a C1-C3 alkyl group; and n is an integer of from 0 to 3. Process for the preparation of the above polyether polyol, which process comprises reacting an alkylene oxide with a polyhydric alcohol blend comprising a diphenylol alkane precursor of the above indicated structural moiety and at least one aliphatic or alicyclic polyhydric alcohol having a functionality of at least 2.0. Polyether polyol blend having an aromaticity in the range of from 2 to 10% and a Fn in the range of from 2.5 to 5.0 eq/mole, which blend comprises the above polyether polyol and one or more aliphatic or alicyclic polyether polyols having a Fn of at least 2.5. Rigid polyurethane foam having a total aromaticity in the range of from 35% to 50%, obtainable by foaming a composition comprising the above polyol or polyol blend having an aromaticity from 2 to 10% and a Fn from 2.5 to 5.0 eq/mole, and an aromatic polyisocyanate in such amount that the isocyanate index is from 100 to 150, whereby the polyol reactant accounts for from 1 and 10% of the total aromaticity of the rigid polyurethane foam.

IPC 1-7

C08G 18/48; **C08G 65/26**

IPC 8 full level

C08G 65/02 (2006.01); **C08G 18/28** (2006.01); **C08G 18/32** (2006.01); **C08G 18/48** (2006.01); **C08G 65/26** (2006.01); **C08J 9/02** (2006.01); **C08L 71/02** (2006.01); **C08L 75/04** (2006.01); **C08G 101/00** (2006.01)

CPC (source: EP KR US)

C08G 18/4804 (2013.01 - EP KR US); **C08G 18/4879** (2013.01 - EP KR US); **C08G 65/2606** (2013.01 - EP KR US); **C08G 2110/0025** (2021.01 - EP US); **C08G 2110/0041** (2021.01 - EP US)

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Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

EP 0778302 A1 19970611; **EP 0778302 B1 20020424**; AT E216710 T1 20020515; BG 101034 A 19970930; BG 63343 B1 20011031; CA 2192146 A1 19970608; CA 2192146 C 20050802; CN 1082516 C 20020410; CN 1157833 A 19970827; CZ 291241 B6 20030115; CZ 354896 A3 19970813; DE 69620850 D1 20020529; DE 69620850 T2 20021010; DK 0778302 T3 20020819; ES 2176401 T3 20021201; HU 218088 B 20000528; HU 9603358 D0 19970128; HU P9603358 A2 19971229; HU P9603358 A3 19980302; JP H09176302 A 19970708; KR 100467382 B1 20051019; KR 970042643 A 19970724; NO 311694 B1 20020107; NO 965210 D0 19961205; NO 965210 L 19970609; PL 186571 B1 20040130; PL 317340 A1 19970609; PT 778302 E 20020830; RU 2177960 C2 20020110; SG 48495 A1 19980417; SK 155796 A3 19980114; SK 281277 B6 20010212; TW 505672 B 20021011; UA 52585 C2 20030115; US 5824714 A 19981020

DOCDB simple family (application)

EP 96203440 A 19961205; AT 96203440 T 19961205; BG 10103496 A 19961205; CA 2192146 A 19961205; CN 96117276 A 19961206; CZ 354896 A 19961204; DE 69620850 T 19961205; DK 96203440 T 19961205; ES 96203440 T 19961205; HU P9603358 A 19961205; JP 33913596 A 19961205; KR 19960062465 A 19961206; NO 965210 A 19961205; PL 31734096 A 19961205; PT 96203440 T 19961205; RU 96122861 A 19961204; SG 1996011539 A 19961205; SK 155796 A 19961205; TW 86100794 A 19970124; UA 96124552 A 19961205; US 76281196 A 19961209